In the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

1 1. (Currently Amended) A digital image sensor, comprising: 2 a first two-color photo-detector sensitive to a first total wavelength range, said 3 first two-color photo-detector having a first photo-detector element capable of absorbing light 4 within a first range of wavelengths of said first total wavelength range and a second photo-5 detector element capable of absorbing light within a second range of wavelengths of said first 6 total wavelength-range, said first photo-detector element being in an elevated relation with 7 said second photo-detector element, said first photo-detector element being electrically 8 isolated from said second photo-detector element; and 9 a second two-color photo-detector having a third photo-detector element 10 capable of absorbing light within a third range of wavelengths and a fourth photo-detector 11 element capable of absorbing light within a fourth range of wavelengths, said first, second, 12 third and fourth range of wavelengths each being different from the other, said third photo-13 detector element being in an elevated relation with [[a]] said fourth photo-detector element, 14 said third photo-detector element being electrically isolated from said fourth photo-detector 15 element, said second two color photo detector being sensitive to a second total wavelength 16 range different from said first total wavelength range.

1 2. (Original) The sensor of Claim 1, further comprising:
2 a substrate, said second photo-detector element being formed within said
3 substrate.

1	3.	(Original)	The sensor of Claim 2, further comprising:		
2		a dielectric la	ayer between said first photo-detector element and said second		
3	photo-detector element, said dielectric layer electrically isolating said first photo-detector				
4	element from said second photo-detector element.				
1	4.	(Original)	The sensor of Claim 1, wherein said first photo-detector		
2	element is formed of amorphous silicon having a thickness selected to absorb light within				
3	said first range of wavelengths and pass light within said second range of wavelengths, said				
4	second photo-detector detecting light within said second range of wavelengths passed by said				
5	first photo-detector element.				
1	5.	(Original)	The sensor of Claim 1, wherein said first and second photo-		
2	detector elements are photodiodes.				
1	6.	(Original)	The sensor of Claim 5, wherein said photodiodes are PIN		
2	photodiodes.				
1	7	(C			
1	7.	(Currently A	mended) The sensor of Claim 1, further comprising:		
2		a color filter	in an elevated relation with said first photo-detector element, said		
3	color filter absorbing light within a third another range of wavelengths and passing light				
4	within said first and second ranges of wavelengths				

1 8. (Original) The sensor of Claim 7, further comprising: 2 a transparent metal conductor layer between said color filter and said first 3 photo-detector element. 9. 1 (Original) The sensor of Claim 1, further comprising: 2 circuitry for driving said first photo-detector element and said second photo-3 detector element, said first photo-detector element being in an elevated relation with said 4 circuitry. 1 10-12. (Canceled) 1 13. (Original) The sensor of Claim 12, wherein said first photo-detector 2 element produces a first color value, said second photo-detector element produces a second 3 color value, said third photo-detector element produces a third color value and said fourth 4 photo-detector element produces a fourth color value, and further comprising: 5 a third two-color photo-detector having a fifth photo-detector element in an 6 elevated relation with a sixth photo-detector element, said fifth photo-detector element being 7 electrically isolated from said sixth photo-detector element, said fifth photo-detector element 8 being capable of absorbing light within said first range of wavelengths and producing a fifth 9 color value, said sixth photo-detector element being capable of absorbing light within said 10 second range of wavelengths and producing a sixth color value; and 11 a fourth two-color photo-detector having a seventh photo-detector element in 12 an elevated relation with an eighth photo-detector element, said seventh photo-detector 13 element being electrically isolated from said eighth photo-detector element, said seventh photo-detector element being capable of absorbing light within said first range of 14

16 capable of absorbing light within said second range of wavelengths and producing an eighth 17 color value. 1 14. (Currently Amended) A digital image sensor, comprising: 2 a first two-color photo-detector sensitive to a first total wavelength range, said 3 first two-color-photo-detector having a first photo-detector element capable of absorbing light 4 within a first range of wavelengths of said first total wavelength range and a second photo-5 detector element capable of absorbing light within a second range of wavelengths of said first 6 total wavelength range, said first photo-detector element being in an elevated relation with 7 said second photo-detector element; 8 a first dielectric layer between said first photo-detector element and said 9 second photo-detector element; 10 a second two-color photo-detector having a third photo-detector element 11 capable of absorbing light within a third range of wavelengths and a fourth photo-detector 12 element capable of absorbing light within a fourth range of wavelengths, said first, second, 13 third and fourth range of wavelengths each being different from the other, said third photo-14 detector element being in an elevated relation with [[a]] said fourth photo-detector element, 15 said second two color photo detector being sensitive to a second total wavelength range 16 different from said first total wavelength range; and 17 a second dielectric layer between said third photo-detector element and said

wavelengths and producing a seventh color value, said eighth photo-detector element being

15

18

fourth photo-detector element.

1	15.	(Original)	The sensor of Claim 14, further comprising:		
2	a substrate, said second photo-detector element being formed within said substrate.				
1	16.	(Original)	The sensor of Claim 14, wherein said first photo-detector		
2	element is for	med of amorp	shous silicon having a thickness selected to absorb light within		
3	said first range of wavelengths, said second photo-detector detecting light within said second				
4	range of wavelengths passed by said first photo-detector element.				
1	17.	(Currently A	mended) The sensor of Claim 14, further comprising:		
2		a color filter	in an elevated relation with said first photo-detector element, said		
3	color filter absorbing light within a third another range of wavelengths and passing light				
4	within said first and second ranges of wavelengths.				
1	18.	(Original)	The sensor of Claim 17, further comprising:		
2		a transparent	metal conductor layer between said color filter and said first		
3	photo-detector element.				
1	19.	(Original)	The sensor of Claim 14, further comprising:		
2		circuitry for	driving said first photo-detector element and said second photo-		
3	detector element, said first photo-detector element being in an elevated relation with said				
4	circuitry.				
1	20-26	(Canceled)			

- 1 27. (Currently Amended) The sensor of Claim 1, wherein said first photo-detector
 2 element is formed of amorphous silicon having a first thickness selected to absorb light
 3 within said first range of wavelengths and said third photo-detector element is formed of
 4 amorphous silicon having a second thickness selected to absorb light within [[a]] said third
 5 range of wavelengths.
- 1 28. (Currently Amended) The sensor of Claim 14, wherein said first photo2 detector element is formed of amorphous silicon having a first thickness selected to absorb
 3 light within said first range of wavelengths and said third photo-detector element is formed of
 4 amorphous silicon having a second thickness selected to absorb light within [[a]] said third
 5 range of wavelengths.